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Nonperturbative renormalization of bilinear operators with Mobius domain-wall fermions in the coordinate space

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We study a non-perturbative determination of the renormalization constants of flavor non-singlet quark bilinear operators. The renormalization condition is imposed on correlation functions of bilinear operators in the coordinate space. The results are converted to the value in the $\overline{\text{MS}}$ scheme by a perturbative matching. The calculation is done on gauge configurations generated with the Mobius domain-wall fermions at two lattice spacings $a = 0.08$ and 0.06 fm.

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